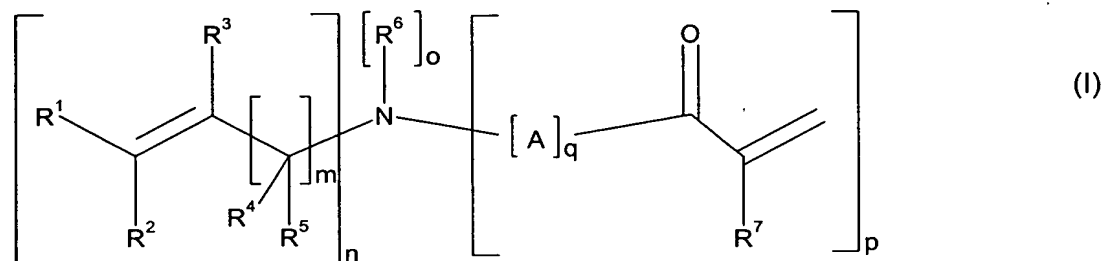


We claim:

1. (Meth)acrylic esters of unsaturated amino alcohols of the general formula I



5

where

$\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^4$  and  $\text{R}^5$  are each independently hydrogen or  $\text{C}_1$  to  $\text{C}_6$  alkyl, of which  $\text{C}_3$  to  $\text{C}_6$  alkyl may be branched or unbranched,

10

$\text{R}^6$  is  $\text{C}_1$  to  $\text{C}_6$  alkyl, of which  $\text{C}_3$  to  $\text{C}_6$  alkyl may be branched or unbranched,

$\text{R}^7$  is hydrogen or methyl,

$m$  is an integer from 0 to 10,

15

$n$  is 1 or 2,

$o$  is 0 or 1,

20

$p$  is 1 or 2,

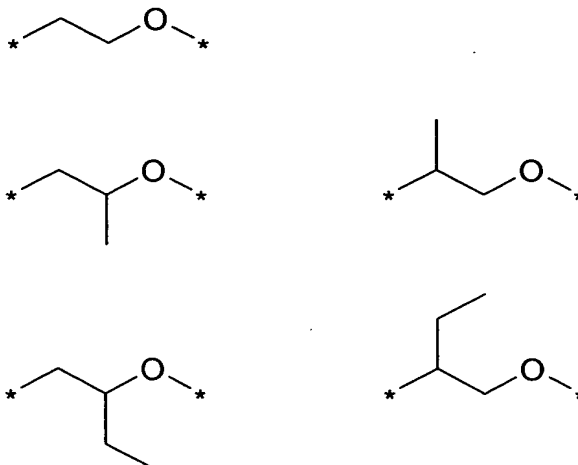
$q$  is an integer from 2 to 100,

the sum total of  $n$ ,  $o$  and  $p$  is 3, and

25

A represents identical or different radicals selected from the group consisting of

33



where \* identifies the positions of attachment.

- 5    2.    (Meth)acrylic esters of unsaturated amino alcohols of the general formula I as per claim 1, where

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$  and  $R^5$  are each hydrogen,

10     $R^6$     is  $C_1$  to  $C_3$  alkyl, of which  $C_3$  alkyl may be branched or unbranched,

$R^7$     is hydrogen or methyl,

15     $m$     is 0 or 1,

$n$     is 1 or 2,

$o$     is 0 or 1,

20     $p$     is 1 or 2,

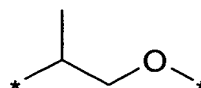
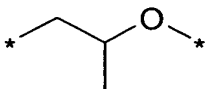
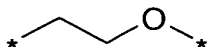
$q$     is an integer from 3 to 40,

the sum total of  $n$ ,  $o$  and  $p$  is 3 and

25

A represents identical or different radicals selected from the group consisting of

34



where \* identifies the positions of attachment.

- 5 3. (Meth)acrylic esters of unsaturated amino alcohols of the general formula I as per claim 1, where

$R^1, R^2, R^3, R^4$  and  $R^5$  are each hydrogen,

10  $R^7$  is hydrogen or methyl,

$m$  is 1,

$n$  is 1 or 2,

15

$o$  is 0,

$p$  is 1 or 2,

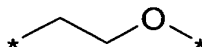
20

$q$  is an integer from 5 to 20,

the sum of total of  $n, o$  and  $p$  is 3, and

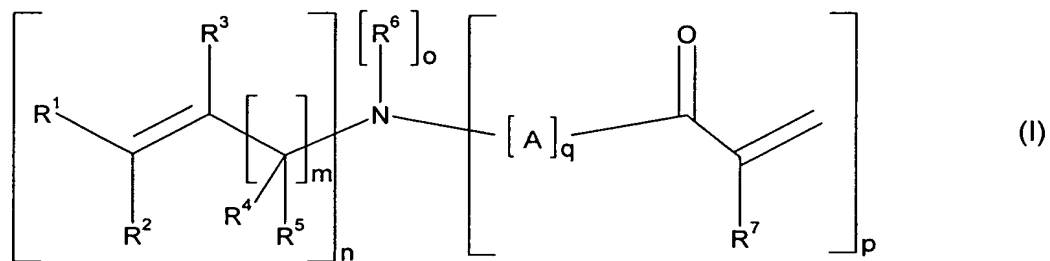
A is

25



where \* identifies the positions of attachment.

- 30 4. A process for preparing the (meth)acrylic esters of unsaturated amino alcohols as claimed in claim 1 to 3, which comprises unsaturated amino alcohols being transesterified with lower (meth)acrylic esters in the presence of a catalyst, the released lower alcohol being distilled off during the reaction, if appropriate as an azeotrope, and the unconverted lower (meth)acrylic ester being distilled off after
- 35 the reaction has ended, optionally diluted with water and filtered.
5. Swellable hydrogel-forming polymer containing a copolymerized internal crosslinker of the general formula I



5 where

$\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^4$  and  $\text{R}^5$  are each independently hydrogen or  $\text{C}_1$  to  $\text{C}_6$  alkyl, of which  $\text{C}_3$  to  $\text{C}_6$  alkyl may be branched or unbranched,

10  $\text{R}^6$   $\text{C}_1$  to  $\text{C}_6$  alkyl, of which  $\text{C}_3$  to  $\text{C}_6$  alkyl may be branched or unbranched,

$\text{R}^7$  is hydrogen or methyl,

$m$  is an integer from 0 to 10,

15  $n$  is 1 or 2,

$o$  is 0 or 1,

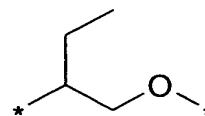
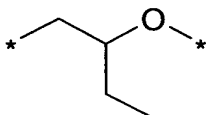
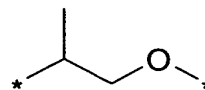
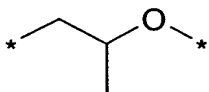
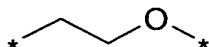
20  $p$  is 1 or 2,

$q$  is an integer from 1 to 100,

the sum total of  $n$ ,  $o$  and  $p$  is 3, and

25 A represents identical or different radicals selected from the group consisting of

36



- 5 6. Swellable hydrogel-forming polymer containing a copolymerized internal crosslinker of the general formula I as claimed in claim 2.
7. Swellable hydrogel-forming polymer containing a copolymerized internal crosslinker of the general formula I as claimed in claim 3.
- 10 8. A process for preparing crosslinked swellable hydrogel-forming polymers as claimed in claim 5 to 7, which comprises polymerizing an aqueous mixture comprising a hydrophilic monomer, optionally at least one further monoethylenically unsaturated compound, at least one (meth)acrylic ester of unsaturated amino alcohols, at least one free-radical initiator and optionally also at least one grafting base, and optionally the reaction mixture obtained being post-crosslinked, dried and brought to the desired particle size.
- 15
9. The use of crosslinked swellable hydrogel-forming polymers as claimed in claim 5 to 7 for manufacturing a hygiene article.
- 20 10. A hygiene article comprising a crosslinked swellable hydrogel-forming polymer as claimed in claim 5 to 7.